Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1 - 22. (cancelled)

23. (previously presented) A micromachined device comprising: a substrate having an upper surface; and

an array of three-dimensional, thin film wells patterned at the upper surface of the substrate wherein each of the wells is capable of receiving and retaining a known quantity of liquid;

wherein each of the wells includes a side wall having an outside corner with a small radius to prevent the liquid from flowing down outside the side wall.

24-27. (cancelled)

28. (withdrawn) A method of using the device as claimed in claim 1, the method comprising:

dispensing a membrane solution droplet into the well.

- 29. (withdrawn) The method as claimed in claim 28 wherein the membrane solution is a polymeric membrane solution.
- 30. (withdrawn) The method as claimed in claim 28 wherein the membrane solution is an aqueous solution.
- 31. (withdrawn) The method as claimed in claim 28 wherein the membrane solution is a solvent-based solution.

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- 32. (withdrawn) The method as claimed in claim 28 wherein the membrane is an optical membrane.
- 33. (withdrawn) A method of using the device as claimed in claim 2, the method comprising:

dispensing a first membrane solution droplet into the first well; and dispensing a second membrane solution droplet over the first membrane solution droplet and into the second well.

- 34. (withdrawn) The method as claimed in claim 33 wherein the first membrane solution is an internal filling solution.
- 35. (withdrawn) The method as claimed in claim 33 wherein the second membrane solution is an external binding layer.
- 36. (withdrawn) The method as claimed in claim 33 wherein the second membrane solution has enzymes, antibodies or functional groups trapped therein.
- 37. (withdrawn) A method of using the device as claimed in claim 3, the method comprising:

dispensing a membrane solution droplet into each of the array of wells.

38-41. (canceled)

42. (currently amended) The method as claimed in claim 24 A method of making a micromachined device comprising:

providing a substrate having a layer of radiation-sensitive material formed thereon;

patterning at least one three-dimensional, thin film well from the layer of material wherein the at least one well is capable of receiving and retaining a known quantity of liquid; and

<u>dispensing a first membrane solution into the well</u> wherein the membrane is an optical membrane.

43 (currently amended) The method as claimed in claim 25 A method of making a micromachined device comprising:

providing a substrate having a layer of radiation-sensitive material formed thereon;

patterning at least one three-dimensional, thin film well from the layer of material wherein the at least one well is capable of receiving and retaining a known quantity of liquid;

dispensing a first membrane solution into the well;

patterning a three-dimensional, thin film well from the layer of material outside of the at least one well at the same time as patterning the at least one well, the method further comprising:

dispensing a second membrane solution over the first membrane solution and into the thin film well outside of the at least one well.

- 44. (previously presented) The method as claimed in claim 43 wherein the first membrane solution is an internal filling solution.
- 45. (previously presented) The method as claimed in 43 wherein the second membrane solution is an external binding layer.
- 46. (previously presented) The method as claimed in claim 43 wherein the second membrane solution has ionophores, enzymes, antibodies or functional groups trapped therein.